



QUALITY & SERVICE
MAKE THE "DIFF"

Electric Pumpmatic-NG Series 23A

Instruction Manual

PUMPMATIC-NG



QUALITY & SERVICE
MAKE THE "DIFF"

AUTO
MANUAL

START
STOP

CLOCK
SET

CYCLE
TIMES

CYCLE
DAYS

DATA

UP

DOWN

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Electric Pumpmatic-NG Instruction Manual

Description

The Electric Pumpmatic-NG Series 23A controller is designed to operate an electric motor. The operator can set up to fifty cycles per day. The system will automatically start the motor, and stop the motor to complete a cycle.

Modes of Operation

In **Automatic Real Time Cycles Mode**, the controller will automatically start and stop the motor based on real time cycles. At the next run cycle time, it will start the motor, until the cycle's stop time.

In **Automatic Interval Timer Mode**, the controller will automatically start and stop the motor based on the interval timer. The motor will start and run for the length of the interval run time, then stop for the length of the interval stop time. This cycle will repeat indefinitely.


Manual Mode allows the operator to manually control the motor. Press the Start/Stop button to start or stop the motor.

For more information on changing modes, see the Auto/Manual button on the next page.

Eagle Communication Wiring

Use **CABLE-008** from EDI for connecting to Eagle Unit

Pumpmatic		↔	Eagle Unit	
1	Receive	Red	L3	Transmit
2	Transmit	White	L4	Receive
3	Enable	Green	L5	CMSW
4	Ground	Black	L6	Ground

Jumper to PG 

Surge Suppression must be used on the Master Device!

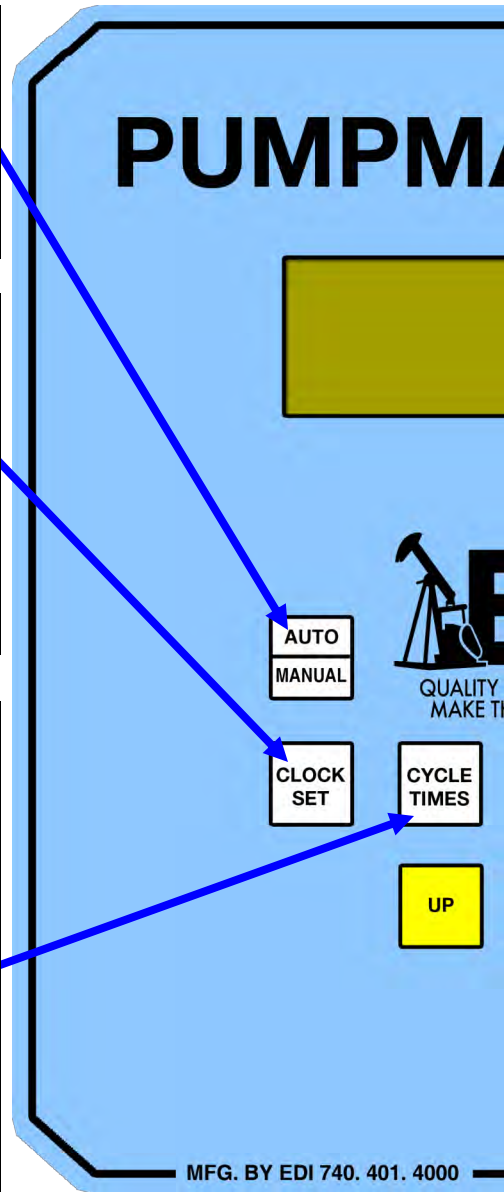
Auto/Manual: Press and hold the Auto/Manual button to see the current mode. To change between Manual Mode, Automatic Interval Timer and Automatic Real Time Cycles Mode, press the Up or Down button.

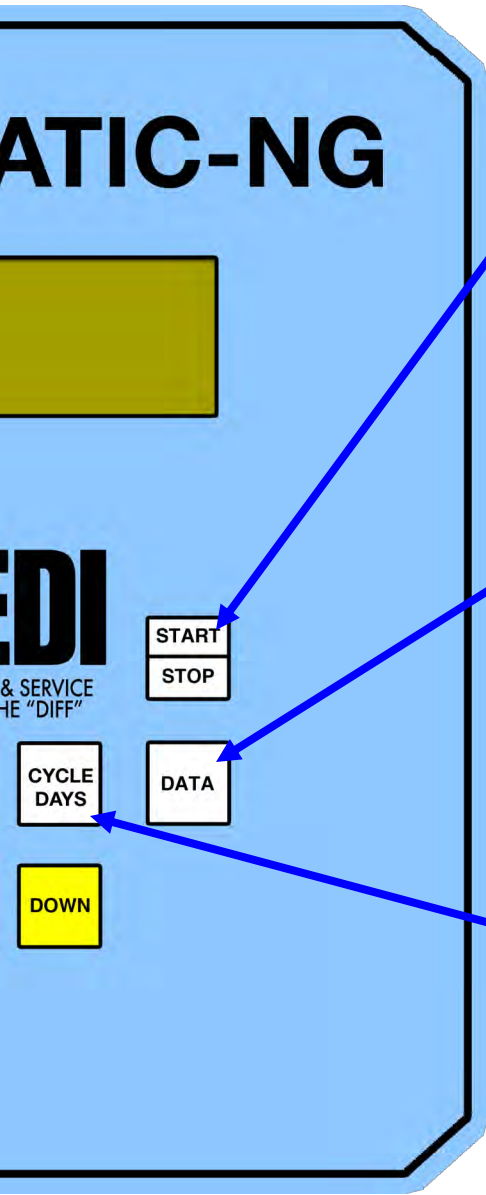
Clock Set: Press the Clock Set button to view and set the real time clock. Press the Up or Down button to begin setting the clock. Use the Up and Down buttons to change the displayed part of the date and time. Release the Clock Set button, and press it again to advance to the next screen, until you reach the original screen.

Cycle Times: In Automatic Real Time Cycles Mode, press the Cycle Times button to view and set the number of cycles and the start and stop times for each cycle.

In Automatic Interval Timer Mode, press the Cycle Times button to view and set the interval run and stop timers.

Use the Up and Down buttons to change the settings. Release the Cycle Times button, and press it again to advance to the next screen.





Start/Stop: Press the Start/Stop button to manually start and stop the motor. In automatic mode, press the Start/Stop button to stop the motor.

Data: Press the Data button to view the Motor Starts, Motor Overloads, Service Meter, Total Hour Meter, and Supply Voltage.

Press the Up or Down button on the Motor Starts, Motor Overloads or Service Hour Meter screens to clear the counter.

Cycle Days: Press the Cycle Days button to view and set the days of the week when the cycles will run. Press the Up or Down button to change between ON and OFF.

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Technical Specifications

MEMORY

128KB EEPROM Memory
Stores all settings, 512 Event Logs

COMMUNICATIONS

RS-232
Protocol: Modbus Slave
Has Interval and Sleep Timers to conserve power when using radios
Optional Radio Units come with 900 MHz Radio pre-installed

POWER

Operating Voltage: 10.5 to 20 VDC
Power Supply: 12V 5A
Idle Current Draw: 30mA

LCD SCREEN

4 line x 20 Character LCD Screen

INPUTS

Optional: Tank Level (0-10 psig)
Input Range: 0-5 VDC
Supply Voltage: 5VDC or 12VDC
Higher pressure ranges available

WEIGHT

14.1 lbs.

ENVIRONMENTAL

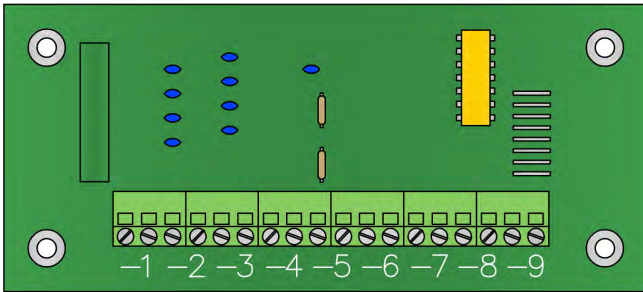
Operating Temperature: -30°C to 85°C (-22°F to 185°F)
Operating Humidity: 5 to 95%, non-condensing

ENCLOSURE

Weatherproof Fiberglass Enclosure
UL Types 1, 2, 3, 4, 4X, 12 & 13
CSA Types 1, 2, 3, 3R, 4, 4X, 12 & 13
NEMA Types 1, 2, 3, 3R, 4, 4X, 12 & 13
Dimensions: 14.13" H x 12.26" W x 6.13" D

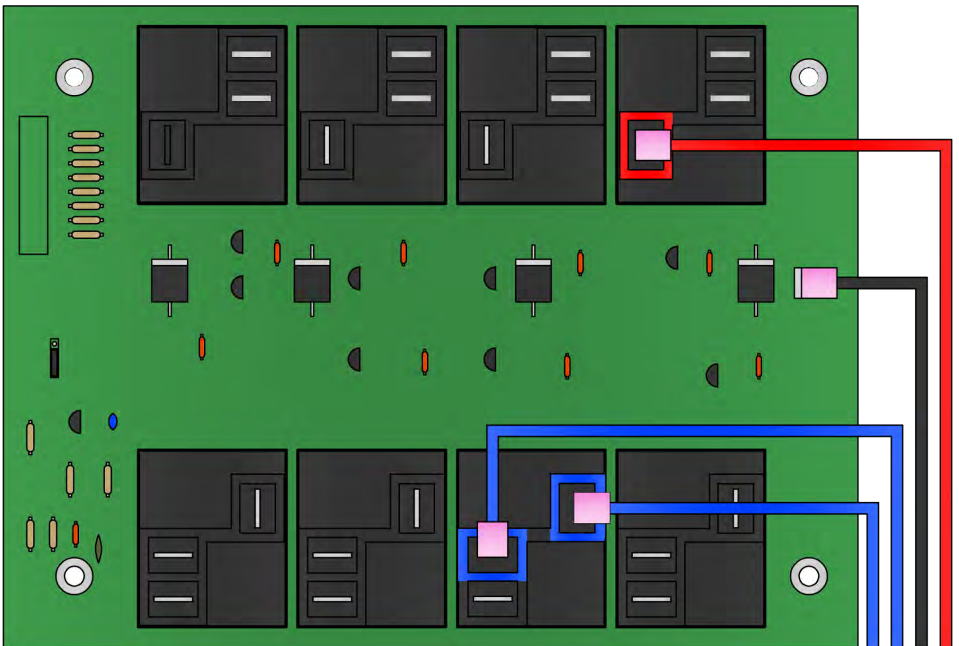
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Wiring Diagram



Pin	Function	
1	Motor Overload*	
2	Motor Temp High*	

* If Not Used, jumper should be installed



-  Positive DC Power
-  AC Power Contact
-  Ground



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